

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

1.9422
D3C862

WAR FOOD ADMINISTRATION
OFFICE OF DISTRIBUTION
5 South Wabash Avenue
Chicago 3, Illinois

Simple Formula for Standardizing Cream for Use in
Connection with War Food Order 13

Dairymen who produce and sell small quantities of market cream but who are not equipped to test it for butterfat and thereby standardize it to the desired point, may obtain cream of approximately 19 percent butterfat by reference to the accompanying table. It is necessary to know the approximate butterfat test of the mixed herd milk. This does not vary much from day to day but may vary greatly from season to season. A sample of mixed herd milk should be tested for butterfat at least once a month or oftener when there has been a marked change in the total quantity of milk produced by the herd. Arrangements can be made to have this testing done by some one such as the county or city health authorities or local dairy plant.

The following table shows the number of pints (to the nearest $1/4$ pint) of cream of 19 percent butterfat obtainable from a given number of gallons of milk.

For example, to determine the number of pints of cream of 19 percent butterfat to be obtained from 7 gallons of milk that test 4.5 percent butterfat, proceed as follows: In the first column of the table, find the figure 4.5. On this line, in the column headed "7 gal," is the figure $13-1/2$. This is the number of pints of cream of 19 percent butterfat obtainable from 7 gallons of 4.5 percent milk.

When separating 7 gallons of 4.5 percent milk, it may be necessary to take either one of the following steps to obtain the desired quantity of cream - $13-1/2$ pints:

1. If the quantity of cream obtained is greater than $13-1/2$ pints, the separator should be adjusted to deliver a smaller quantity of cream.
2. If the quantity of cream obtained is less than $13-1/2$ pints, sufficient skim milk should be added to bring the volume to $13-1/2$ pints. This is desirable as a regular practice - that is, have the separator so adjusted that it is necessary to add some skim milk to the cream to obtain the desired number of pints of 19 percent cream.

When a larger volume of milk, for example 17 gallons, is separated, the number of pints of 19 percent cream obtainable would be found by adding the number of pints from 7 gallons ($13-1/2$) to the number from 10 gallons ($19-1/4$), which would be $32-3/4$ pints.

Of course, this method of standardizing cream is only approximate and it should not be relied upon to meet all legal requirements where very exact standards must be met.

Pints of Cream (Approximately 19 Percent Fat) per Indicated Quantity of Milk

Test of :	Pints of Cream From									
Milk :	1 gal.	2 gals.	3 gals.	4 gals.	5 gals.	6 gals.	7 gals.	8 gals.	9 gals.	10 gals.
3.0	1 1/4	2 1/2	3 3/4	5	6 1/2	7 3/4	9	10 1/4	11 1/2	12 3/4
3.1	1 1/4	2 3/4	4	5 1/4	6 1/2	8	9 1/4	10 1/2	12	13 1/4
3.2	1 1/4	2 3/4	4	5 1/2	6 3/4	8 1/4	9 1/2	11 1/4	12 1/4	13 3/4
3.3	1 1/2	2 3/4	4 1/4	5 1/2	7 1/4	8 1/2	9 3/4	11 1/2	12 3/4	14
3.4	1 1/2	3	4 1/4	5 3/4	7 1/4	8 3/4	10 1/4	11 1/2	13	14 1/2
3.5	1 1/2	3	4 1/2	6	7 1/2	9	10 1/2	12	13 1/2	15
3.6	1 1/2	3	4 1/2	6 1/4	7 3/4	9 1/4	10 3/4	12 1/4	13 3/4	15 1/4
3.7	1 1/2	3 1/4	4 3/4	6 1/2	8	9 1/2	11 1/4	12 1/2	14 1/4	15 3/4
3.8	1 1/2	3 1/4	4 3/4	6 1/2	8 1/4	9 1/4	11 1/4	12 1/4	14 1/4	15 3/4
3.9	1 3/4	3 1/4	5	6 3/4	8 1/2	10	11 3/4	13 1/4	15 1/4	17
4.0	1 3/4	3 1/2	5 1/4	7	8 3/4	10 1/4	12 1/4	14 1/4	16 1/4	18 1/4
4.1	1 3/4	3 1/2	5 1/4	7 1/4	9 1/4	11 1/4	13 1/4	15 1/4	17 1/4	19 1/4
4.2	1 3/4	3 1/2	5 1/2	7 1/2	9 1/2	11 1/2	13 1/2	15 3/4	17 3/4	19 1/2
4.3	1 3/4	3 3/4	5 1/2	7 1/2	9 1/4	11 1/4	13 1/4	15 3/4	17 3/4	19 1/2
4.4	1 3/4	3 3/4	5 3/4	7 3/4	9 3/4	11 3/4	13 3/4	15 3/4	17 3/4	19 1/2
4.5	2	4	6	8	10	12	14	16	18	20
4.6	2	4 1/4	6 1/4	8 1/4	10 1/4	12 1/4	14 1/4	16 1/4	18 1/4	20 1/2
4.7	2	4 1/4	6 1/4	8 1/4	10 1/4	12 1/4	14 1/4	16 1/4	18 1/4	20 1/2
4.8	2	4 1/4	6 1/4	8 1/4	10 1/4	12 1/4	14 1/4	16 1/4	18 1/4	20 1/2
4.9	2	4 1/4	6 1/4	8 1/4	10 1/4	12 1/4	14 1/4	16 1/4	18 1/4	20 1/2
5.0	2 1/4	4 1/4	6 1/2	8 1/2	10 3/4	12 3/4	15 1/4	17 1/2	19 1/2	21 3/4
5.1	2 1/4	4 1/4	6 1/2	8 1/2	10 3/4	12 3/4	15 1/4	17 1/2	19 1/2	21 3/4
5.2	2 1/4	4 1/4	6 3/4	8 3/4	11 1/4	13 1/4	15 3/4	17 3/4	19 3/4	22 1/4
5.3	2 1/4	4 1/4	6 3/4	8 3/4	11 1/4	13 1/4	15 3/4	17 3/4	19 3/4	22 1/4
5.4	2 1/4	4 1/2	7	9	11 1/2	13 1/2	16 1/2	18 1/2	20 3/4	23
5.5	2 1/4	4 1/2	7	9	11 3/4	14	16 1/2	18 3/4	21	23 1/2

10/10/10

The first part of the report deals with the general situation of the country and the progress of the work during the year.

The second part of the report deals with the results of the work during the year and the progress of the work during the year.

The third part of the report deals with the results of the work during the year and the progress of the work during the year.

The fourth part of the report deals with the results of the work during the year and the progress of the work during the year.

The fifth part of the report deals with the results of the work during the year and the progress of the work during the year.